



Docket No. 4752-105 US

1742
64
BT
7-19-02

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: ASSISTANT COMMISSIONER OF PATENTS, WASHINGTON, D.C. 20231 ON THE DATE INDICATED BELOW.

BY: Joyce Maule DATE: 7/3/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Application of Harchekar, V. *et al.*

10/051,877
Appln. No.: ~~09/073,493~~

Filed: November 9, 2001

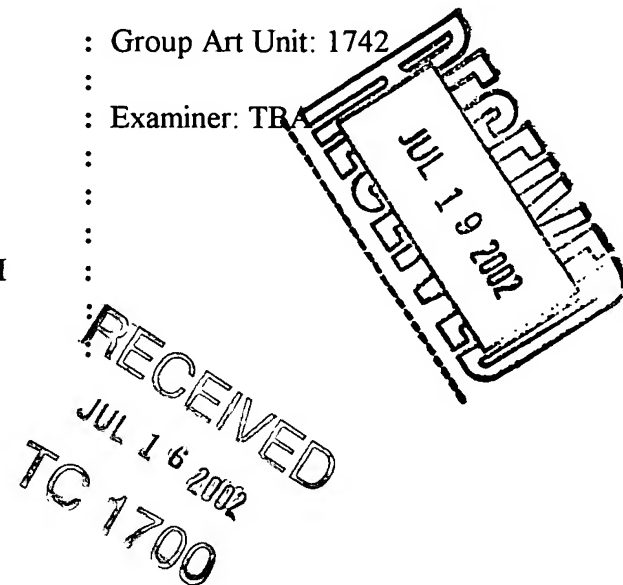
For: Cu-Zn-Al(6%) SHAPE MEMORY ALLOY WITH
LOW MARTENSITIC TEMPERATURE AND A
PROCESS FOR ITS MANUFACTURE

Assistant Commissioner of Patents
Washington, D.C. 20231

SIR:

: Group Art Unit: 1742

: Examiner: TRA



INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, Applicant hereby brings to the attention of the United States Patent and Trademark Office the following documents of which Applicant has been made aware. The documents are listed on the attached PTO Form 1449. Copies of the documents are enclosed. It is requested that the references be considered by the Examiner and be made of record as part of the available prior art under 37 C.F.R. § 1.104.

These references are submitted more than three months after the filing date but before the first Office Action on the merits of the application. Accordingly, no fee is believed to be due; however, in the event fees are due, authority is hereby given to charge any such deficiency to Deposit Account No. 13-2165 Mathews, Collins, Shepherd & McKay. The Examiner is invited to contact the undersigned if further information is required.

Respectfully submitted,

MATHEWS, COLLINS, SHEPHERD & MCKAY, P.A.



By: Brian L. Buckwalter
Registration No. 46,585
Agent for Applicants

July 3, 2002
100 Thanet Circle, Suite 306
Princeton, NJ 08540-3662
Telephone 609-924-8555
Telecopier 609-924-3036

RECEIVED
JUL 16 2002
TC 1700



Please type a plus sign (+) inside this box → ☒

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/051,877	
	Filing Date	10/25/01	
	First Named Inventor	Harchekar, Vijay Rajaram	
	Group Art Unit	1742	
	Examiner Name		
Total Number of Pages in This Submission	5	Attorney Docket Number	4752-105 US

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Prior Art - Non Patent Literature Documents as listed on IDS
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Brian L. Buckwalter Reg. No.: 46,585
Signature	
Date	July 3, 2002

RECEIVED
JUL 16 2002
TC 1700

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: July 3, 2002			
Typed or printed name	Joyce Maule		
Signature		Date	July 3, 2002

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/051,877
Filing Date	10/25/01
First Named Inventor	Harchekar, Vijay Rajaram
Group Art Unit	1742
Examiner Name	
Attorney Docket Number	4752-105 US

Sheet 1 of 2

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	WAYMAN, C.M., "Some Applications of Shape-Memory Alloys", Journal of Metals, 32 (June 1980), pps. 129-137.	
	2	MICHAEL A.D. & HART, W.B., "SME Brass - A New Engineering Material", Metall. Material. Technol., Vol. 12 (1980), pps. 434-440.	
	3	WHITE, S.M., COOK, J.M. & STOBBS, W.M., "The Grain Size Dependence of The Loading and Reversion Behaviour of A Cu-Zn-Al Marmem Alloy Deformed Below Mf", Journal De Physique, C4 (ICOMAT-82), pps. 779-783.	
	4	GOLESTANEH, Ahmad A., "Shape-Memory Phenomena", Physics Today, (April 1984), pps. 62-70.	
	5	SABURI, T., WAYMAN, C.M., TAKALA, K. & NENNO, S., "The Shape Memory Mechanism in 18R Martensitic Alloys", Acta Metallurgica (Jan 1980), Vol. 28, pps. 15-32.	
	6	SCHETKY, L. MCDONALD, "Shape-Memory Alloys", Scientific American, 241 (Nov. 1979), pps. 68-76.	
	7	ADNYANA, DEWA N., "A Copper-Based Alloy For Shape Memory Wires and Springs", Wire Journal International, (1984), pps. 52-61.	
	8	IKAI, Y., MURAKAMI, K. & MISHIMA, K., "Stability of the Shape Memory Effect - Effect of Grain Size Refinement", Journal De Physique, Cr (ICOMAT-82), pps. 785-789.	
	9	ENAMI, K., TAKIMOTO, N. & NENNO, S., "Effect of the Vanadium Addition on the Grain Size and Mechanical Properties of the Copper-Aluminium-Zinc Shape Memory Alloys", Journal De Physique, C4 (ICOMAT-82), pps. 773-778.	
	10	HIGGINS, RAYMOND A., "Copper and the Copper-Base Alloys", Engineering Metallurgy, Vol. 1, (1971), pps. 312-323.	
	11	WEST, E. G., "Copper and Its Alloys", Ellis Horwood Ltd. Series in Industrial Metals, 1982, pps. 98-105.	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/051,877
		Filing Date	10/25/01
		First Named Inventor	Harchekar, Vijay Rajaram
		Group Art Unit	1742
		Examiner Name	
Sheet 2 of 2	Attorney Docket Number	4752-105 US	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	12	GREAVES, RICHARD HENRY & WRIGHTON, HAROLD, "Practical Microscopical Metallography", Chapman & Hall Ltd., (1971), pps. 164-167.	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.